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# PATENT ABSTRACTS OF JAPAN

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(84) Designated contracting states:

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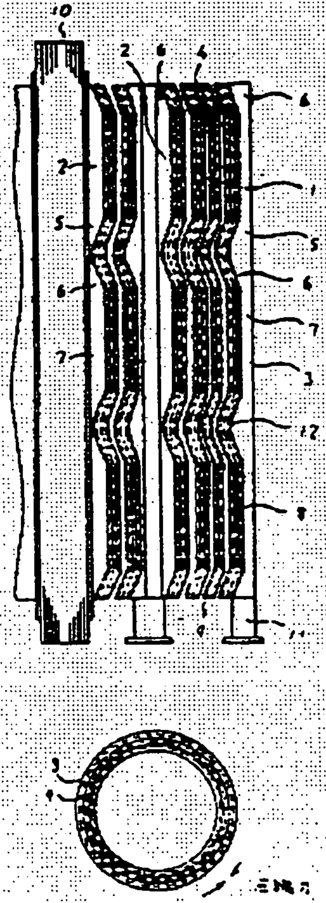
## (54) FOIL-WOUND TRANSFORMER

(57) Abstract:

PURPOSE: To prevent a coil of each stage, from slipping down, and to dispense coil loads to respective stages by providing the irregularities of the same shape to the outer circumferential section of an inner cylinder and the inner circumferential section of an outer cylinder.

CONSTITUTION: The irregularities of lower inclined sections 5, upper inclined section 6 and parallel sections 7 are shaped to an inner cylinder 2 and an outer cylinder 3, and the irregularities are connected in the circumferential direction. A cooling duct 4 cools a coil 1 while being used as a member holding and fixing the coil 1. When metallic foils 8 intend to slide and fall, compressive force works in the circumferential direction, and the lower ends of the metallic foils 8 are deformed undulatingly when the metallic



undulatingly when the metallic foils further slide and fall, thus preventing deformation between a narrow section between insulating sheets 9 so far as extremely large load is applied from an upper section. Accordingly, since the inner cylinder is also tilted to the inside, not only the metallic foil 8 on the outside but also the metallic foil 8 near the inner cylinder are not slid and brought down. Likewise, the upper inclined section 6 obviates the upward displacement of the metallic foils 8.

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